

Abstract:

The invention relates to an electronic lock (3) for a locking system, in particular an electronic ignition lock for a motor vehicle. The lock (3) has a holder (11) into which an associated electronic key can be introduced. The key, which is in the holder (11), exchanges at least one coded operating signal with the lock (3), with the result that after positive evaluation of the transmitted operating signal the release of the lock (3) for movement of the holder (11) by means of the key into at least one actuating position can be triggered. The lock (3) has a blocking element (17) which executes an adjusting movement on introduction of the key into the holder (11) and/or removal of the key from the holder (11). The blocking element (17) interacts with the holder (11) in such a manner that the movement of the holder (11) additionally to its release is made possible only when the key is correctly in the holder (11). Furthermore, the lock (3) has a switching element (16) on which the adjusting movement of the blocking element (17) exerts a switching action, via a separate transmitting means (25) which can be brought into operative connection both with the blocking element (17) and with the switching element (16), with the result that by introduction of the key into the holder (11) the switching element (16) produces a signal ("key inserted" signal).

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Internationales Büro



INTERNATIONALE ANMELDUNG VERÖFFENTLICHT NACH DEM VERTRAG ÜBER DIE  
INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES PATENTWESENS (PCT)

<p>(51) Internationale Patentklassifikation <sup>7</sup> : <b>B60R 25/02, 25/04</b></p>	<p><b>A1</b></p>	<p>(11) Internationale Veröffentlichungsnummer: <b>WO 00/32452</b></p> <p>(43) Internationales Veröffentlichungsdatum: <b>8. Juni 2000 (08.06.00)</b></p>
<p>(21) Internationales Aktenzeichen: <b>PCT/DE99/03773</b></p> <p>(22) Internationales Anmeldedatum: <b>29. November 1999 (29.11.99)</b></p> <p>(30) Prioritätsdaten: <b>198 55 342.0      1. Dezember 1998 (01.12.98)      DE</b></p> <p>(71) Anmelder (für alle Bestimmungsstaaten ausser US): <b>MARQUARDT GMBH [DE/DE]; Schlossstrasse 16, D-78604 Rietheim-Weilheim (DE). DAIMLERCHRYSLER AG [DE/DE]; D-70546 Stuttgart (DE).</b></p> <p>(72) Erfinder; und (75) Erfinder/Anmelder (nur für US): <b>GEIGER, August [DE/DE]; Hützlengweg 2, D-78607 Talheim (DE). MÜLLER, Karl [DE/DE]; Zeppelinstrasse 4, D-78628 Rottweil-Neufra (DE). GEBER, Michael [DE/DE]; Im Kolzental 24, D-72574 Bad Urach (DE). FITZ, Hartmut [DE/DE]; Untere Seehalde 51, D-73660 Urbach (DE).</b></p> <p>(74) Anwälte: <b>OTTEN, Herbert usw.; Karlstrasse 8, D-88212 Ravensburg (DE).</b></p>		<p>(81) Bestimmungsstaaten: <b>JP, US, europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</b></p> <p><b>Veröffentlicht</b> <i>Mit internationalem Recherchenbericht. Vor Ablauf der für Änderungen der Ansprüche zugelassenen Frist; Veröffentlichung wird wiederholt falls Änderungen eintreffen.</i></p>

(54) Title: **LOCKING SYSTEM, ESPECIALLY FOR MOTOR VEHICLES**

(54) Bezeichnung: **SCHLIESSYSTEM, INSBESONDERE FÜR KRAFTFAHRZEUGE**

(57) Abstract

The invention relates to an electronic lock (3) for a locking system, especially an electronic ignition lock for a motor vehicle. The lock (3) comprises a cavity (11) in which an appropriate electronic key can be inserted. The key inserted in the cavity (11) exchanges at least one coded operating signal with the lock (3) so that, upon a positive analysis of the transmitted operating signal, the key can trigger the release of the lock (3) in order to move the cavity (11) into at least one actuating position. The lock (3) comprises a locking element (17) which carries out an adjusting movement when the key is inserted into the cavity (11) and/or when the key is removed from the cavity (11). The locking element (17) interacts with the cavity (11) such that the movement of the cavity (11) for releasing the same is additionally enabled only when the key is properly inserted in said cavity (11). The lock (3) also comprises a switching element (16) upon which the adjusting movement of the locking element (17) acts in a switching manner via a separate transmission means (25) that can be brought into working contact with both the locking element (17) and the switching element (16) so that the switching element (16) generates a signal ("key insert" signal) when the key is inserted into the cavity (11).

